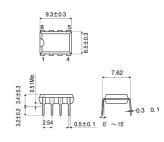
Call Progress Tone Decoder for Telephone BU8877/F

Description

The BU8877 and BU8877F are ICs that detect dial tones from a call progress signal used in the telephone lines. The ICs detect dual signals 350Hz(from 345 to 355Hz)and 440Hz(from 435 to 445Hz).









Features

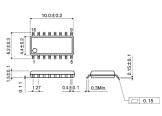
- 1) No malfunction by voice signal 2) Dual tone detection (350Hz and 440Hz)
- 3) Wide dynamic range
- 4) 3.58MHz crystal resonator



°C

Applications

Telephone, Codeless telephone and Facsimile for the U.S.



SOP16

•	Absolute Max	psolute Maximum Ratings (Ta=25°C) Parameter Symbol Limits Unit							
	Parar	neter	Symbol	Limits	Unit				
	Power supply v	/oltage	V _{CC}	7	V				
	Power	DIP8	Pd	800 ^{*1}	mW				
	dissipation	SOP16	гu	300 ^{*2}	IIIVV				
	Operating temp	erature range	Topr	-30 ~ +80	°C				

Storage temperature range Tstg

*1 Derating:8.0mW/°C for operation above Ta=25°C *2 Derating:3.0mW/°C for operation above Ta=25°C

Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Power supply voltage	V _{DD}	2.85	-	5.25	V

-55 ~

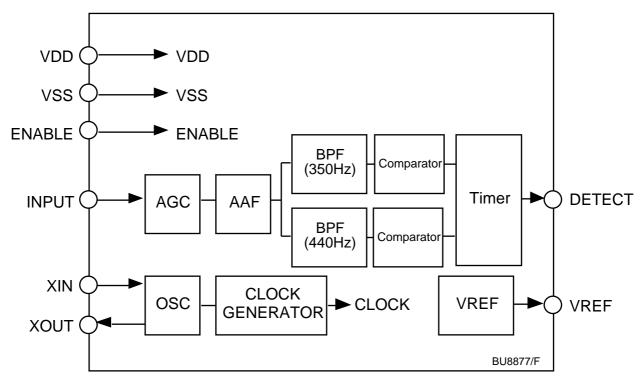
+125

● Electrical characteristics (Unless otherwise noted, Ta=25°C, V_{DD}= 5.0V, Xtal frequency=3.58MHz)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Supply current operation 2-1	IDD2-1	-	3.7	5.0	mA	ENABLE="H"(VDD=5.0V)	
Minimum input signal level	VRECL	-38	-	-	dBm	Input frequency:	
Maximum input signal level	VRECH	-	-	2	dBm	Must detect frequency range VRECL, VRECH are proportional	
Must not detect signal level		VREJ	-50	-	-	dBm	to VDD.
Must datast fraguenau range	350Hz	fV350	345	350	355	Hz	Input signal level: 0dBm
Must detect frequency range	440Hz	fV440	435	440	445	Hz	input signal level. Odbin
Input Impedance		Zin	-	100	-	k	Input frequency: 100Hz~2000Hz
Call progress tone response	t _{RES}	28	-	56	ms		
Call pogress tone de-response	t dres	28	-	56	ms		
Detect duty ratio	Wdu	35	50	65	%		

*Detect Duty Ratio which input signal (350Hz+440Hz) burst at 5Hz (Duty Ratio=50%)

Block Diagram



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